Multi Layer Ceramic Chip Antenna
3216 (1206) Size

Features

- Surface Mounted Devices with a small dimension of 3.2mm×1.6mm×1.1mm³ meet future miniaturization trend.
- LTCC process
- High stability in Temperature / Humidity Change
- Multilayer ceramic antenna (chip antenna)
- Automotive, Qualified to AEC-Q200
- Reel Packaging

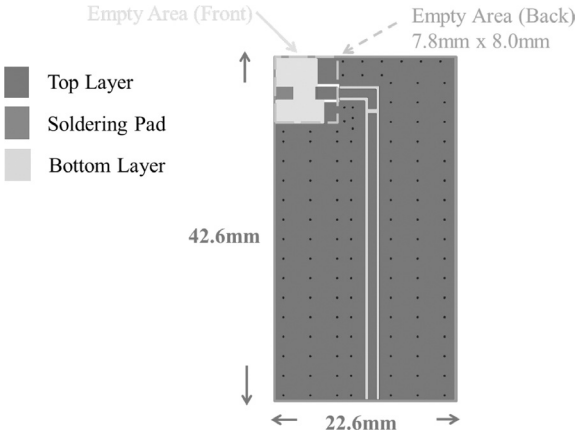
Application

- 6240 ~ 8500MHz working Frequency

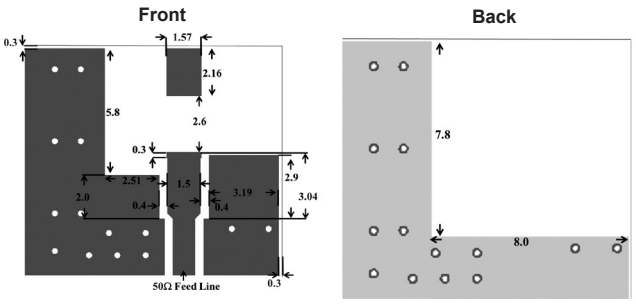
Electrical Characteristics

Working Frequency Range	: 6240MHz ~ 8500MHz
Fc	: 7370MHz
VSWR	: 2 max.
Gain	: 3 ~ 4.5dBi
Efficiency	: 70% ~ 80%
Power Capacity	: 3W max.
Maximum Input Power	: 5 Watts for 5 minutes
Polarization	: Linear
Azimuth Beam width	: Omni-directional
Moisture Sensitivity Levels	: MSL is LEVEL 1 (Refer to : IPC/JEDEC J-STD-020)
HBM ESD	: Pass 1KV on all pins (Base on AEC-Q200-002)
MM ESD	: Pass 200V (Base on EIA/JESD22-A115)
Operation Storage Temperature Range	: -55°C to +125°C
Storage Temperature Range	: +5°C to +40°C
Humidity	: 30 to 70% relative humidity

Solder Land Pattern Design

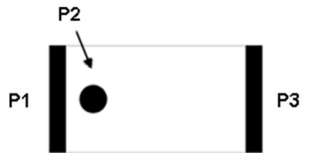


Antenna on Test Board (Thickness 0.8 mm)



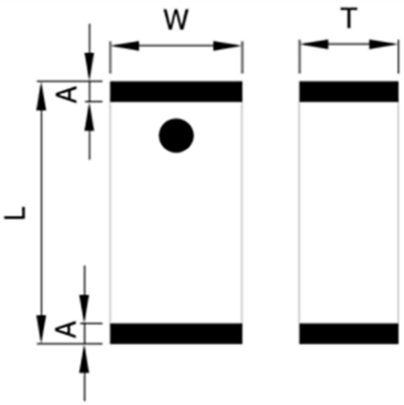
Dimensions : Millimetres

Construction

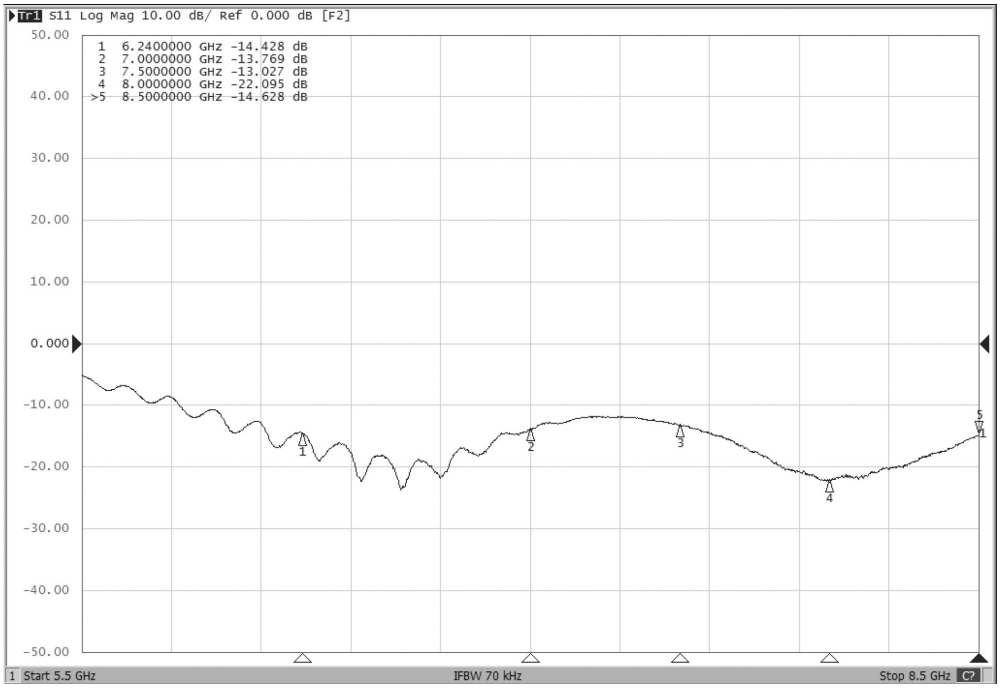


PIN	Connection
P1	Feeding
P2	Identification Mark
P3	Soldering terminal

Dimensions

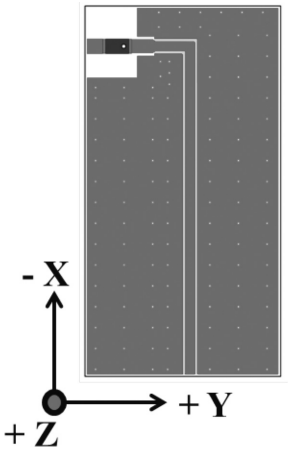
	Symbol	Dimension (mm)
	L	3.2 ±0.2
	W	1.6 ±0.1
	T	1.1 ±0.1
	A	0.25 ±0.15

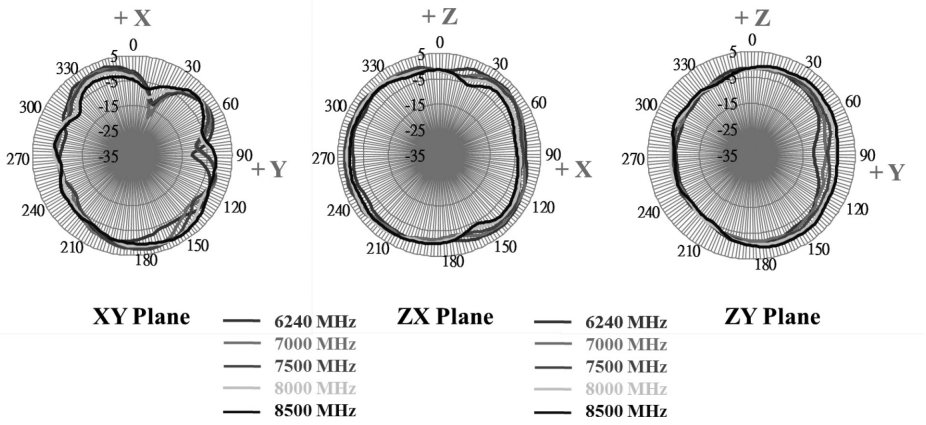
Antenna S11 on Test Board



Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of AMANT3216110Y1 Tantenna was measured based on the PCB size and installation position as shown in the below figure Test Board.





Part Number Table

Description	Part Number
Ceramic Chip Antenna, 3216, 7.37GHz, 2 VSWR	AMANT3216110Y1T